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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/565,921	03/13/2006	Stephen B. Murphy	103068-0003U	7285
	7590 07/31/200 MCKENNA, LLP	99	EXAMINER	
88 BLACK FA	LCON AVENUE		DANEGA, RENEE A	
BOSTON, MA	02210		ART UNIT	PAPER NUMBER
			3736	
			MAIL DATE	DELIVERY MODE
			07/31/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/565,921	MURPHY, STEPHEN B.		
Office Action Summary	Examiner	Art Unit		
	Renee Danega	3736		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	l. lely filed the mailing date of this communication. (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on 12 M This action is FINAL . 2b) ☑ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) Claim(s) 4-14 is/are pending in the application. 4a) Of the above claim(s) 15-21 is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 4-14 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the or	n from consideration. r election requirement. r. epted or b) □ objected to by the B			
Replacement drawing sheet(s) including the correcti	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).		
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5/12/09.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te		

Application/Control Number: 10/565,921 Page 2

Art Unit: 3736

DETAILED ACTION

Election/Restrictions

1. Claims 1-3 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected method, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 12/8/08.

2. Newly submitted claims 15-21 are directed to an invention that is independent or distinct from the invention originally claimed for the following reasons: Claims 15-21 are directed to a computer readable medium, or device falling in an entirely different statutory class, whereas claims 4-14 are directed to a method which as claimed can be performed without instructions on a computer readable medium.

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 15-21 remain withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Application/Control Number: 10/565,921

Art Unit: 3736

4. Claims 4-6, 9-10, and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sarin et al. (US 20040254586) in view of DiGioia et al. (US 6205411) Chen et al. (WO 02/062248).

Page 3

Regarding claims 4, 5, 9-10 and 14, Sarin teaches a method executed in a computer system having at least one processor for determining axial rotation of a pelvis, comprising receiving a information defining a coordinate system of said pelvis in the near AP direction; defining first and second landmarks of said pelvis, said landmarks separated from each other in at least an anterior-posterior direction; determining the transaxial displacement of said landmarks on said image; and using said displacement to determine the axial and transaxial rotations of said pelvis with respect to the plane of said image [0041] [0042] [0051] [0052]. Sarin doesn't expressly teach using fluoroscopy. However, DiGioia teaches superimposing landmark registration onto a fluoroscopic image, wherein rotation is taken as a function of displacement of the fluoroscopic images of a sample taken at known orientations to the image plane in order to aid in surgical simulations in preoperative planning minimizing the extent to which the pelvis must be exposed during the procedure (abstract) (column 11, lines 11-25) (Figure 2). It would have been obvious in view of DiGioia to use a fluoroscopic image in Sarin in order to provide a realistic visualization to aid in pre-operative simulation and planning of surgery.

Application/Control Number: 10/565,921 Page 4

Art Unit: 3736

 Regarding claims 6 and 11, Sarin teaches the second landmark to comprise the midpoint of a line between the image points on the left and right sacroiliac joints [0025].

- 5. Claims 7-8 and 12-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sarin modified by DiGioia as applied to claims 1 and 9 above, and further in view of Chen et al. (WO 02/062248).
 - Regarding claims 7-8 and 12-13, Sarin modified by DiGioia doesn't expressly teach normalizing displacement with respect to the separation between further landmarks. However, Chen teaches finding the distance from the pubic symphesis to the right and left teardrops (62) (60) and (66) (68) (Figure 2). It would have been obvious in view of Chen to use a second set of points in Sarin modified by DiGioia in order to ensure the accuracy of the calculated rotation relative to the first set of points.

Response to Arguments

6. Applicant's arguments, see pg 8-9, filed 5/12/09, with respect to the rejection(s) of claim(s) 1 and 9 under U.S.C. 103(a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of DiGioia.

Art Unit: 3736

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Renee Danega whose telephone number is (571)270-3639. The examiner can normally be reached on Monday through Thursday 8:30-5:00 eastern time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Max Hindenburg can be reached on (571) 272-4726. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

RAD

/Max Hindenburg/ Supervisory Patent Examiner, Art Unit 3736 Application/Control Number: 10/565,921

Page 6

Art Unit: 3736